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TITLE : ACTIVATED CARBON, ITS PRODUCTION AND ELECTRODE FOR
ELECTRIC-DOUBLE-LAYER CAPACITOR

ABSTRACT : PURPOSE: To increase the specific surface of mesopore region necessary to a large-capacity capacitor, to decrease the specific surface of a micropore region and to efficiently utilize the specific surface by specifying the pore distribution obtained from a nitrogen adsorption isotherm.

CONSTITUTION: At least one kind of carbonaceous material among coal, coconut shell, sawdust, resin, etc., is carbonized at $\geq 300^{\circ}\text{C}$ to obtain a granular, granulated or powdery carbonaceous material. The carbonaceous material is activated with steam at $\geq 900^{\circ}\text{C}$ to obtain the material with the specific surface of ≥ 20 pore diameter controlled to $\geq 1000\text{m}^2/\text{g}$ and its ratio to the total specific surface to ≥ 0.30 . The activated material is further activated at $400\text{-}1000^{\circ}\text{C}$ with an alkali metal hydroxide such as KOH and NaOH and an alkaline-earth metal hydroxide as the activator to obtain the activated carbon. When the activated carbon is formed into a capacitor, etc., a binder such as polytetraethylene resin is added by one to several % and mixed, and the mixture is press-formed. When an electrode is formed, a conductive material such as conductive carbon black is added to decrease the resistance of the electrode.

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